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Powder compsn. for nasal admin. - comprises active polypeptide and water-absorbing water-insol. base

Patent Assignee: TEIJIN LTD (TEIJ)

Inventor: NAGAI T; NAMBU N; NISHIMOTO Y; SEKINE K; SUZUKI Y

Number of Countries: 009 Number of Patents: 007

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
EP 122036	A	19841017	EP 84301546	A	19840308		198442 B
JP 59163313	A	19840914	JP 8337244	A	19830309		198443
US 4613500	A	19860923	US 84587779	A	19840309		198641
JP 87037016	B	19870810					198735
EP 122036	B	19890208					198906
DE 3476633	G	19890316					198912
EP 122036	B2	19941102	EP 84301546	A	19840308	A61K-037/02	199442

Priority Applications (No Type Date): JP 8337244 A 19830309

Cited Patents: 1.Jnl.Ref; AT 212; AT 329743; AT 330962; DE 1178975; DE 2229981; DE 2535258; DE 2726837; FR 2530; GB 1018125; GB 1183506; GB 1236707; GB 1461188; GB 1527605; GB 2016015; US 3155573; US 3632743; US 4294829; DE 2229987; GB 1078125; US 3682743; No-Citns.

Patent Details:

Patent	Kind	Lan	Pg	Filing Notes	Application	Patent
EP 122036	A	E	31			
Designated States (Regional): CH DE FR GB IT LI SE						
EP 122036	B	E				
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EP 122036	B2	E	17			
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Abstract (Basic): EP 122036 A

Powder compsn. for nasal admin. comprises a physiologically active polypeptide (I) or its deriv. and a water-insol. water-absorbing base.

(I) is pref. a polypeptide of molecular wt. 1000-300000, esp. calcitonin, insulin, luteinising hormone releasing hormone, desmopressin, vasopressin or oxytocin. It may be in the form of a vaccine, e.g. influenza or pertussis vaccine. Interferons may also be administered in the powder compsn. In the compsns. pref. at least 90% of the particles have a dia. of 10-250 microns.

The base may be cellulose, starch, protein, crosslinked vinyl polymer or gum. The cellulose may be cryst. cellulose, alpha-cellulose or crosslinked Na carboxymethylcellulose. The vinyl polymer is crosslinked PVP or crosslinked carboxyvinyl polymer. The water-insol. base may be used with a water-sol. water-absorbing base, e.g. lower alkyl cellulose ether, polyacrylate, polyethylene glycol or PVP.

USE/ADVANTAGE - (I) may be a high molecular wt. material readily degraded by proteolytic enzymes, so that oral admin. is ineffective and alternatives to the usual injection method are desirable.

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Title Terms: POWDER; COMPOSITION; NASAL; ADMINISTER; COMPRISE; ACTIVE; POLYPEPTIDE; WATER; ABSORB; WATER; INSOLUBLE; BASE

Derwent Class: A96; B04; B07

International Patent Class (Main): A61K-037/02

International Patent Class (Additional): A61K-009/14; A61K-009/22;

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